

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

PUBLICATION NUMBER : 11273262  
PUBLICATION DATE : 08-10-99

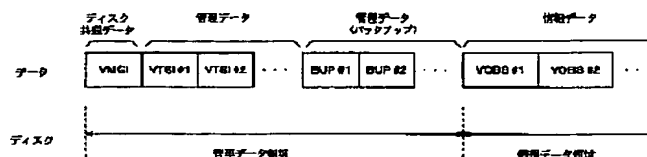
APPLICATION DATE : 20-03-98  
APPLICATION NUMBER : 10071742

APPLICANT : PIONEER ELECTRON CORP;

INVENTOR : NOGUCHI TADASHI;

INT.CL. : G11B 20/12 G11B 19/02 G11B 20/10  
G11B 20/10 G11B 27/00 G11B 27/034  
H04N 5/93

TITLE : INFORMATION RECORDING AND  
REPRODUCTION DEVICE



ABSTRACT : PROBLEM TO BE SOLVED: To provide an information recording and reproducing device which can freely perform processings such as recording, reproducing, editing, and the like for one or plural information data whose attribute such as a coding system, picture display, and the like is different.

SOLUTION: This device is an information recording and reproducing device which records plural information data groups in the information data region of a recording medium, records control data about each group of the information data in a control data region, and selectively reproduces information data groups conforming to the control data. The control data comprises attribute information data indicating attribute such as a coding system of each group of information data, picture display, and the like.

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PUBLICATION NUMBER : 11273314  
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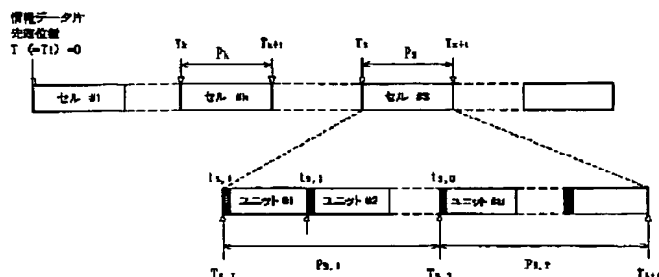
APPLICATION DATE : 20-03-98  
APPLICATION NUMBER : 10071741

APPLICANT : PIONEER ELECTRON CORP;

INVENTOR : ISHII HIDEHIRO;

INT.CL. : G11B 27/00 G11B 27/10 H04N 5/92

TITLE : DIGITAL DATA  
RECORDING/REPRODUCING DEVICE



ABSTRACT : PROBLEM TO BE SOLVED: To obtain a digital data recording/reproducing device for obtaining the reproduction time information of a position even if information data that are subjected to editing such as chapter setting and erasure are reproduced halfway.

SOLUTION: In a digital data recording/reproducing device, each if information data piece is divided into a plurality of cells and further each of the cells is divided into a series of a plurality of units for recording. In this case, a means for recording by adding time required for reproduction until the start position of a unit is reached with information data piece where the cell belongs to as a reference to each unit as unit start time and a means for recording cell start time  $T_s$  that is equal to time required for reproduction until each start position of cells is reached and each time  $P_s$  required for reproducing cells on a control data area are provided.

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PUBLICATION NUMBER : 11162119  
PUBLICATION DATE : 18-06-99

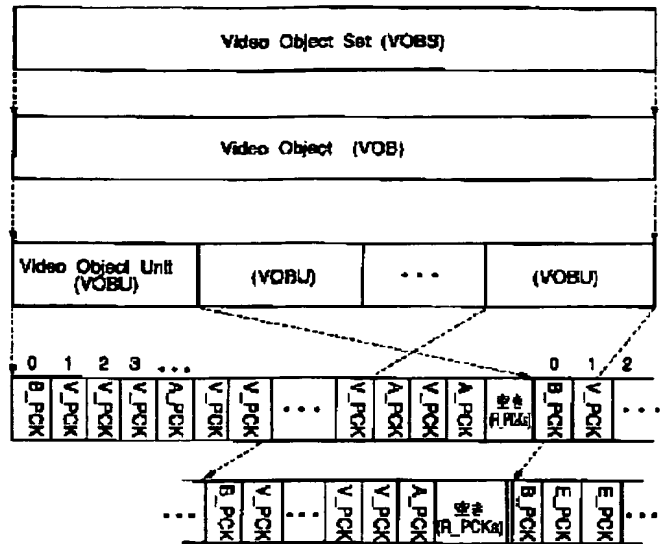
APPLICATION DATE : 28-11-97  
APPLICATION NUMBER : 09329207

APPLICANT : TOSHIBA COMPUT ENG CORP;

INVENTOR : SATO FUMITAKA;

INT.CL. : G11B 20/12 G11B 27/00

TITLE : DATA PROCESSOR AND DATA  
RECORDING/REPRODUCING  
METHOD APPLIED TO THE SAME



ABSTRACT : PROBLEM TO BE SOLVED: To realize a recording format of AV data suitable for DVD-RAM.

SOLUTION: At the leading part of a video object unit(VOBU) of AV data, a pack B-PCK indicating the start of the VOB is provided instead of a navigation pack. After the final video pack (V.PCK) or audio pack (A.PCK) of the VOB, a predetermined number of reserved packs (R.PCK) for producing a free area are embedded. By thus recording AV data with a blank area provided for each VOB unit and enabling writing of audio and video data after editing the blank area, the condition of seamless reproduction can be easily satisfied with respect to edited data.

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